

CLAIMS

1. An adhesive composition for moist medium adhesion comprising, as the binder, a block copolymer having at least one rigid hydrophilic block (B) constituting the minor phase dispersed in the form of nanodomains and at least one hydrophobic block (A) with an elastomeric nature constituting the major phase having a water absorption capacity $w_{\infty}(A)$ of less than 20%.
2. The composition as claimed in claim 1, characterized in that $w_{\infty}(A)$ is less than 10%, preferably less than 5%.
3. The composition as claimed in claim 1 or claim 2, characterized in that the water absorption capacities of A, $w_{\infty}(A)$, and of B, $w_{\infty}(B)$, are such that the ratio $w_{\infty}(B)/w_{\infty}(A)$ is more than 1, preferably more than 20.
4. The composition as claimed in claim 3, characterized in that $w_{\infty}(A)$ is less than 5 and $w_{\infty}(B)/w_{\infty}(A)$ is more than 20.
5. The composition as claimed in claim 1, characterized in that said copolymer has the following general structure:
[(A)x-(B)]_n, in which x is in the range from 1 to 8, n is a whole number in the range from 1 to 3, A and B respectively represent from 50% to 99%, preferably from 65% to 95% by weight and from 1% to 50%, preferably from 10% to 35% by weight of the total weight of the copolymer, the number average molar mass (M_n) of the copolymer being in the range from 5000 g/mol to 300 000 g/mol, with a polydispersity index in the range from 1.1 to 3.
6. The composition as claimed in one of the preceding claims, characterized in that A has a glass transition temperature ($T_g(A)$) of less than 30°C, preferably in the range from -120°C to 0°C.

7. The composition as claimed in one of the preceding claims, characterized in that B has a glass transition temperature ($T_g(B)$) of more than 50°C, preferably in the range from 20°C to 160°C.
8. The composition as claimed in one of the preceding claims, characterized in that A is obtained by polymerizing at least one hydrophobic monomer selected from the group containing long chain acrylates such as butyl acrylate, hexyl acrylate or dienic monomers.
9. The composition as claimed in claim 8, characterized in that the hydrophobic monomer is butyl acrylate.
10. The composition as claimed in one of the preceding claims, characterized in that B is obtained by polymerizing at least one monomer selected from the group containing hydrophilic monomers such as acrylic acid, methacrylic acid, acrylamide, dimethylacrylamide.
11. The composition as claimed in claim 10, characterized in that the hydrophilic monomer is dimethylacrylamide.
12. The use of a composition as claimed in any one of the preceding claims, in formulations for medical applications such as patches or prostheses.
13. The use of a composition as claimed in any one of claims 1 to 11, in formulations for paramedical applications such as dressings.
14. The use of a composition as claimed in any one of claims 1 to 11, in formulations for labels.
15. A patch containing a composition as claimed in one of claims 1 to 11 as an adhesive layer.
16. A prosthesis containing a composition as claimed in one of claims 1 to 11 as an adhesive layer.
17. A dressing containing a composition as claimed in one of claims 1 to 11 as an adhesive layer.

18. Labels containing a composition as claimed in one of claims 1 to 11 as an adhesive layer.